

## CLAIMS

1 - Preservation medium for living organs, biological tissues, and cells containing a liquid nutritive base, wherein it contains a high-molecular-weight hyaluronic acid and sodium chloride and wherein it contains no component of animal origin.

2 - Preservation medium according to claim 1 wherein it contains:

- from 80 to 4,000 mg/l, preferably 100 to 200 mg/l, preferentially 100 to 160 mg/l of high-molecular-weight hyaluronic acid, and
- from 4,500 to 9,000 mg/l, preferably from 5,500 to 9,000 mg/l, preferentially 7,000 mg/l of sodium chloride.

3 - Preservation medium according to claim 1 or 2, wherein it contains, in addition, poloxamer 188.

4 - Preservation medium according to claim 3, wherein it contains from 200 to 75,000 mg/l, preferably from 450 to 50,000 mg/l of poloxamer 188.

5 - Preservation medium according to one of the claims 1 to 4 wherein it contains, in addition, methyl cellulose.

6 - Preservation medium according to claim 5, wherein it contains from 210 to 5,000 mg/l, preferably from 1,900 to 2,500 mg/l and preferentially 2,205 mg/l of methyl cellulose.

7 - Preservation medium according to one of the claims 1 to 6, wherein it presents an osmolarity from 300 to 465 mOsm  $\pm$  40 mOsm.

8 - Preservation medium according to one of the claims 1 to 7, wherein it presents a Brookfield viscosity at 20 °C in the range between 1 and 15 centipoises, preferably between 2.5 and 10 centipoises.

**9 -** Preservation medium according to one of the claims 1 to 8, wherein it contains trace elements, amino acids, vitamins, and a stabilizing pH buffer.

**10 -** Preservation medium according to one of the claims 1 to 9, wherein it does not contain dextran.

**11 -** Use of a preservation medium according to one of the claims 1 to 10 for the preservation of living human corneas.

**12 -** Use of a preservation medium according to one of the claims 1 to 10 for organ culture of living organs, biological tissues, and cells, in particular of living human corneas.

**13 -** Use of a preservation medium according to one of the claims 1 to 10 for the transport of living organs, biological tissues, and cells, in particular of living human corneas.

**14 -** Use of a preservation medium according to one of the claims 1 to 10 for the deturgescence of living organs, biological tissues, and cells, in particular of living human corneas.